

WITH **INVANCE** MD310 & MD290 MODEL

READYMADE VFD PANEL

MADE BY  **IDEATECH ENGINEERING**

1 HP to 600 HP



- Invance MD310 VFD - 1 to 20 HP Panel
- Invance MD290 VFD - 25 to 600 HP Panel

A COMPLETE RANGE OF READYMADE VFD PANEL, 1HP TO 600HP

All Panel With
RS485 Communication

VAF and RPM Meter
from 120 HP to 600 HP
Panel

Certification In
Invance VFD



VFD with Builtin
PID Control

Optional LED & LCD
Keypad Available

Under / Over Voltage,
Phase Loss Protection
(Optional)

Other Brand VFD Option



Features

- MD310 & MD290 HEAVY DUTY VFD
- 150% OVERLOAD CAPACITY
- ALL PANEL WITH RS485 COMMUNICATION
- WIDE OPERATING RANGE 380V to 480V
- MD310 VFD WITH INBUILT DBU
- ALL PANEL WITH SPEED ADJUSTMENT POT
- BUILTIN DC REACTOR FROM 25 HP to 600HP VFD
- MULTIPLE COMMUNICATION OPTIONAL
 - Modbus
 - Profibus
 - CANlink
 - CANopen
- 6 to 9 TIMES BIGGER PANEL THAN VFD SIZE

Electrical Features

Power Features

- ALL VFD COMES WITH HEAVY DUTY **150% OVERLOAD CAPACITY**
- MD310 VFD HAS DC CHOPPER/DYNAMIC BREAKING UNIT IN ALL MODEL
- IF REQUIRED, IN MD290 SERIES VFD EXTERNAL DYNAMIC BRAKING UNIT AVAILABLE (PANEL SIZE AND PRICE MAY VARY)
- EMI FILTER AND AC INPUT REACTOR (INPUT CHOKE) ALSO AVAILABLE (AS PER CUSTOMER REQUIREMENT, PANEL SIZE & PRICE VARY)
- UPTO 50 HP HEAVY DUTY POWER CONNECTOR USED IN PANEL
- FROM 60 HP TO 600 HP ALUMINIUM BUSBAR USED IN PANEL (AS PER CUSTOMER REQUIREMENT COPPER BUSBAR ARE ALSO AVAILABLE)

Control Features

- ALL PANEL FEATURED WITH POWER R, Y, B & VFD ON, TRIP INDICATOR, FORWARD, REVERSE, STOP, JOG FORWARD AND JOG REVERSE PUSHBUTTON, AND 10 TURN POTENTIOMETER FOR SPEED CONTROL
- **RS485 COMMUNICATION** CARD ATTACHED IN MD290 VFD WITH ONLY PANEL
- 50VA TRANSFORMER INSTALLED FROM 5 HP TO 15 HP PANEL
- 100VA TRANSFORMER AND 24VDC, 5A SMPS INSTALLED FROM 20 HP TO 50HP PANEL
- 350 VA TRANSFORMER AND 24VDC, 5A SMPS INSTALLED FROM 60 HP TO 600 HP PANEL



Safety & Certification

- UPTO 30 HP PANEL HAS MCB PROTECTION
- FROM 40 HP TO 600 HP PANEL HAS MCCB PROTECTION
- UV & OV SAFETY WITH CONTACTOR IS CUSTOMIZE UP TO 30HP (AS PER CUSTOMER REQUIREMENT)
- UV & OV SAFETY WITH MCCB UV RELEASE IS CUSTOMIZE FROM 40 TO 600HP (AS PER CUSTOMER REQUIREMENT)
- INOVANCE MD310 VFD COMES WITH CE CERTIFICATION
- INOVANCE MD290 VFD COMES WITH CE, TUV, UL CERTIFICATION
- AS PER CUSTOMER REQUIREMENT, IN PANEL OTHER CERTIFICATION AVAILABLE (ON EXTRA CHARGES)



Mechanical Features

- ALL PANELS ARE 6 TO 9 TIMES BIGGER THAN VFD SIZE FOR ANY OTHER USE IN PANEL
- 1 HP TO 30 HP PANELS ARE WALL MOUNTING PANELS
- 40 HP TO 120 HP PANELS ARE COMES WITH 300MM HEIGHT STAND
- 150 HP TO 600 HP PANELS ARE COMES WITH C-CHANNEL
- ALL CONTROL TERMINAL OF VFD EXTENDED AT BOTTOM OF PANEL FOR EASY OPERATION

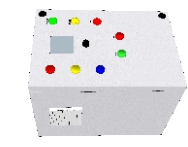
Note:- If user use heavy duty drive as normal duty drive in higher rating, then for any damage company will not responsible.



Frame-1
1 HP to 3 HP



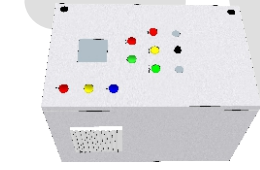
Frame-2
5 HP & 7.5 HP



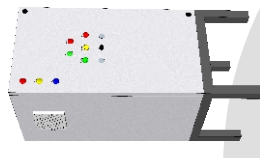
Frame-3
10 HP & 15 HP



Frame-4
20 HP



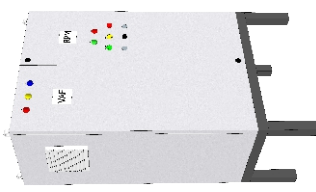
Frame-5
25 HP & 30 HP



Frame-6
40 HP & 50 HP



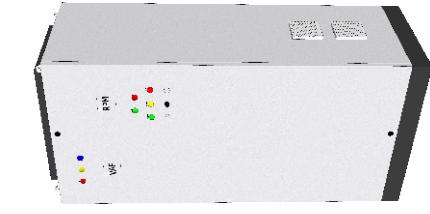
Frame-7
60 HP & 75 HP



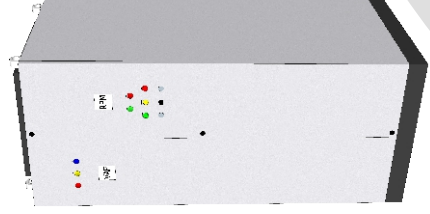
Frame-8
100 HP & 120 HP

ELECTRICAL DATA (ALL PANEL WITH INOVANCE VFD, OTHER BRAND VFD ALSO AVAILABLE)

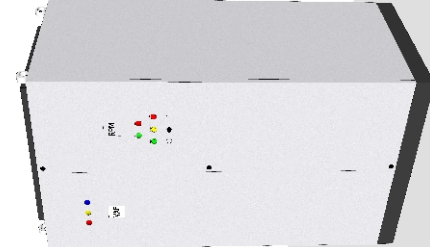
SR. NO.	KW	APPROX HP	GENERAL APPROX CURRENT AS PER HP	VFD RATED CURRENT	MAX CURRENT FOR 1 MINUTE	L&T/SCHNEIDER MCCB OR MCCB TM TYPE	IP/OP CONNECTION	FAN	VFD MODEL	VFD AND PANEL DIMENSION DATA							
										DRIVE HEIGHT	DRIVE WIDTH	DRIVE DEPTH	PANEL HEIGHT	PANEL WIDTH	PANEL DEPTH	FRAME	PANEL TOTAL APPROX WEIGHT
1	0.75	1.0	1.5	2.1	3.2	6A MCCB 10 KA BRAEIKING CAPACITY	4 SQMM 6 NOS.	-	MD310	128	108	158	400	300	300		11
2	1.5	2.0	3.0	3.8	5.7	6A MCCB 10 KA BRAEIKING CAPACITY	4 SQMM 6 NOS.	-	MD310	128	108	158	400	300	300	FRAME 1	15
3	2.2	3.0	4.5	5.1	7.7	6A MCCB 10 KA BRAEIKING CAPACITY	4 SQMM 6 NOS.	-	MD310	128	108	158	400	300	300		15
4	3.7	5.0	7.5	9.0	13.5	10A MCCB 10 KA BRAEIKING CAPACITY	4 SQMM 6 NOS.	1 X 4 INCH FAN	MD310	209	130	164	450	350	300	FRAME 2	26
5	5.5	7.5	11.3	13.0	19.5	16A MCCB 10 KA BRAEIKING CAPACITY	4 SQMM 6 NOS.	1 X 4 INCH FAN	MD310	209	130	164	450	350	300		26
6	7.5	10.0	15.0	17.0	25.5	16A MCCB 10 KA BRAEIKING CAPACITY	6 SQMM 6 NOS.	1 X 4 INCH FAN	MD310	260	140	171	500	350	350	FRAME 3	32
7	11	15.0	22.5	25.0	37.5	25A MCCB 10 KA BRAEIKING CAPACITY	6 SQMM 6 NOS.	1 X 4 INCH FAN	MD310	260	140	171	500	350	350		32
8	15	20.0	30.0	32.0	48.0	32A MCCB 10 KA BRAEIKING CAPACITY	6 SQMM 6 NOS.	2 X 4 INCH FAN	MD310	298	180	176	550	400	400	FRAME 4	41
9	18.5	25.0	37.5	37.5	56.3	40A MCCB 10 KA BRAEIKING CAPACITY	6 SQMM 6 NOS.	1 X 6 INCH FAN	MD290	350	210	192	700	450	450	FRAME 5	59
10	22	30.0	45.0	45.0	67.5	50A MCCB 10 KA BRAEIKING CAPACITY	25 SQMM 6 NOS.	1 X 6 INCH FAN	MD290	350	210	192	700	450	450		59
11	30	40.0	60.0	60.0	90.0	63A MCCB 10 KA BRAEIKING CAPACITY	25 SQMM 6 NOS.	1 X 6 INCH FAN	MD290	400	250	220	950 + 300	550	500	FRAME 6	101
12	37	50.0	75.0	75.0	112.5	80A MCCB 10 KA BRAEIKING CAPACITY	25 SQMM 6 NOS.	1 X 6 INCH FAN	MD290	400	250	220	950 + 300	550	500		101
13	45	60.0	90.0	91.0	136.5	100A MCCB 10 KA BRAEIKING CAPACITY	BUSBAR(CURRENT DENSITY OF ALUMINIUM= 1 A FOR 1 SQ. MM)	2 X 6 INCH FAN	MD290	542	300	275	950 + 300	700	500	FRAME 7	153
14	55	75.0	112.5	112.0	168.0	125A MCCB BREAKING CAPACITY 25 OR 36 KA WITH HANDLE & SPERADER	BUSBAR(CURRENT DENSITY OF ALUMINIUM= 1 A FOR 1 SQ. MM)	2 X 6 INCH FAN	MD290	542	300	275	950 + 300	700	500		153
15	75	100.0	150.0	150.0	225.0	160A MCCB BREAKING CAPACITY 25 OR 36 KA WITH HANDLE & SPERADER	BUSBAR(CURRENT DENSITY OF ALUMINIUM= 1 A FOR 1 SQ. MM)	2 X 6 INCH FAN	MD290	580	338	315	1150 + 300	800	650	FRAME 8	204
16	90	120.0	180.0	176.0	264.0	200A MCCB BREAKING CAPACITY 25 OR 36 KA WITH HANDLE & SPERADER	BUSBAR(CURRENT DENSITY OF ALUMINIUM= 1 A FOR 1 SQ. MM)	2 X 6 INCH FAN	MD290	580	338	315	1150 + 300	800	650		204
17	110	150.0	225.0	210.0	315.0	250A MCCB BREAKING CAPACITY 25 OR 36 KA WITH HANDLE & SPERADER	BUSBAR(CURRENT DENSITY OF ALUMINIUM= 1 A FOR 1 SQ. MM)	2 X 6 INCH FAN	MD290	915	400	320	1800 + 100	900	650	FRAME 9	204



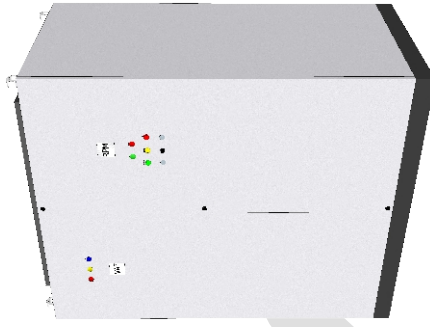
Frame-9
150 HP to 215 HP



Frame-10
270 HP & 300 HP



Frame-11
335 HP & 370 HP

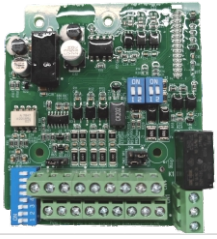


Frame-12
425 HP to 600 HP

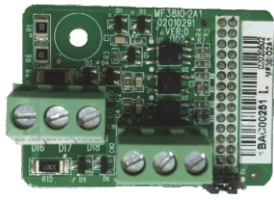
ELECTRICAL DATA (ALL PANEL WITH INVOANCE VFD, OTHER BRAND VFD ALSO AVAILABLE)

SR. NO.	KW	APPROX HP	GENERAL APPROX CURRENT AS PER HP	VFD RATED CURRENT	MAX CURRENT FOR 1 MINUTE	L&T/SCHNEIDER MCB OR MCCB TM TYPE	IP/OP CONNECTION	FAN	VFD MODEL	DRIVE HEIGHT	DRIVE WIDTH	DRIVE DEPTH	VFD AND PANEL DIMENSION DATA				PANEL TOTAL APPROX WEIGHT
													PANEL HEIGHT	PANEL WIDTH	PANEL DEPTH	FRAME	
18	132	180.0	270.0	253.0	379.5	320A MCCB BREAKING CAPACITY 25 OR 36 KA WITH HANDLE & SPERADER	6 x ALUMINIUM BUSBAR(CURRENT DENSITY OF ALUMINIUM= 1 A FOR 1 SQ. MM)	2 X 6 INCH FAN	MD290	915	400	320	1800 + 100	900	650	FRAME 9	344
19	160	215.0	322.5	304.0	456.0	320A MCCB BREAKING CAPACITY 25 OR 36 KA WITH HANDLE & SPERADER	6 x ALUMINIUM BUSBAR(CURRENT DENSITY OF ALUMINIUM= 1 A FOR 1 SQ. MM)	2 X 6 INCH FAN	MD290	915	400	320	1800 + 100	900	650	FRAME 9	344
20	200	270.0	405.0	377.0	565.5	400A MCCB BREAKING CAPACITY 25 OR 36 KA WITH HANDLE & SPERADER	6 x ALUMINIUM BUSBAR(CURRENT DENSITY OF ALUMINIUM= 1 A FOR 1 SQ. MM)	1 X HEAVY INDUSTRIAL FAN	MD290	1134	360	500	2000 + 100	900	900	FRAME 10	450
21	220	300.0	450.0	424.0	636.0	500A MCCB BREAKING CAPACITY 25 OR 36 KA WITH HANDLE & SPERADER	6 x ALUMINIUM BUSBAR(CURRENT DENSITY OF ALUMINIUM= 1 A FOR 1 SQ. MM)	1 X HEAVY INDUSTRIAL FAN	MD290	1134	360	500	2000 + 100	900	900	FRAME 10	450
22	250	335.0	502.5	465.0	697.5	500A MCCB BREAKING CAPACITY 25 OR 36 KA WITH HANDLE & SPERADER	6 x ALUMINIUM BUSBAR(CURRENT DENSITY OF ALUMINIUM= 1 A FOR 1 SQ. MM)	1 X HEAVY INDUSTRIAL FAN	MD290	1284	390	545	2000 + 100	1200	900	FRAME 11	569
23	280	370.0	555.0	520.0	780.0	630A MCCB BREAKING CAPACITY 25 OR 36 KA WITH HANDLE & SPERADER	6 x ALUMINIUM BUSBAR(CURRENT DENSITY OF ALUMINIUM= 1 A FOR 1 SQ. MM)	1 X HEAVY INDUSTRIAL FAN	MD290	1284	390	545	2000 + 100	1200	900	FRAME 11	569
24	315	425.0	637.5	585.0	877.5	630A MCCB BREAKING CAPACITY 25 OR 36 KA WITH HANDLE & SPERADER	6 x ALUMINIUM BUSBAR(CURRENT DENSITY OF ALUMINIUM= 1 A FOR 1 SQ. MM)	2 X HEAVY INDUSTRIAL FAN	MD290	1405	400	545	2000 + 100	1700	1000		667
25	355	475.0	712.5	650.0	975.0	800A MCCB BREAKING CAPACITY 36 OR 50 KA WITH HANDLE & SPERADER	6 x ALUMINIUM BUSBAR(CURRENT DENSITY OF ALUMINIUM= 1 A FOR 1 SQ. MM)	2 X HEAVY INDUSTRIAL FAN	MD290	1405	400	545	2000 + 100	1700	1000		667
26	400	530.0	795.0	725.0	1087.5	800A MCCB BREAKING CAPACITY 36 OR 50 KA WITH HANDLE & SPERADER	6 x ALUMINIUM BUSBAR(CURRENT DENSITY OF ALUMINIUM= 1 A FOR 1 SQ. MM)	2 X HEAVY INDUSTRIAL FAN	MD290	1405	400	545	2000 + 100	1700	1000	FRAME 12	667
27	450	600.0	900.0	820.0	1230.0	1000A MCCB BREAKING CAPACITY 36 OR 50 KA WITH HANDLE & SPERADER	6 x ALUMINIUM BUSBAR(CURRENT DENSITY OF ALUMINIUM= 1 A FOR 1 SQ. MM)	2 X HEAVY INDUSTRIAL FAN	MD290	1405	400	545	2000 + 100	1700	1000		667

Other Extension Cards

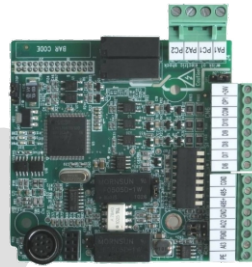


■ MD38IO1



■ MD38IO2

I/O Card



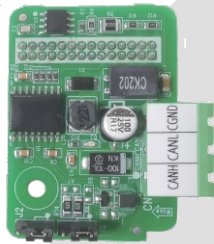
■ MD38PC-1

PLC Card



■ MD38TX1

Modbus Card



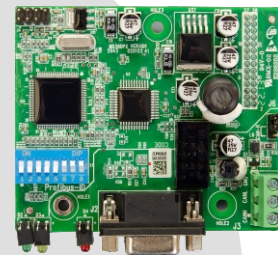
■ MD38CAN1

CANlink Card



■ MD38CAN2

CANopen Card



■ MD38DP2

Profibus-DP Card

Inovance VFD



MD310



MD290



MD520



MD580



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STOCK - RELIABILITY - COMMITMENT



ONE STOP SOLUTION FOR INDUSTRIAL ELECTRICAL & AUTOMATION PRODUCTS

AUTHORISED SYSTEM INTEGRATOR

INOVANCE
HIKROBOT

Whp
MOTORS

3e **GOGATE-GLC**

BELDEN
SENDING ALL THE RIGHT SIGNALS

INDUSTRIES WE SERVE

- | | |
|-------------------------|---|
| 1. Elevator | 12. Print Packaging |
| 2. Jewellery Machine | 13. Hydraulic Press |
| 3. Food Processing | 14. Gear Hobbing |
| 4. Wire Drawing | 15. Coal Mine |
| 5. Compressor, Robotics | 16. Petrochemicals |
| 6. Injection Moulding | 17. Plastic & Aluminium Extrusion |
| 7. ID-FD Fan, Blower | 18. Crane-Hoist (LT, ST, Load) |
| 8. CNC, VMC, HMC | 19. Gold, Silver Acid Refinery & Filter Plant |
| 9. Paper Mill | 20. Engraving & Wood Working Machine |
| 10. Textile | 21. Oil Mill & Honing Machine |
| 11. Blower | 22. Constraction Machinery |



PCC, MCC, AMF, APFC & POWER CONTROL PANELS, PLC, HMI BASED MACHINE & ELECTRIC AUTOMATION PANELS, PANEL ACCESSORIES, SERVO, VFD, ONLINE UPS, SERVO STABILIZER, SPECIAL PURPOSE CABLE, MACHINE VISION & MOBILE ROBOTS, CNC SOLUTION